

10/630,697

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NEWS 5 DEC 14 2006 MeSH terms loaded for MEDLINE file segment of TOXCENTER
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NEWS 7 DEC 21 IPC search and display fields enhanced in CA/CAPLUS with the
IPC reform
NEWS 8 DEC 23 New IPC8 SEARCH, DISPLAY, and SELECT fields in USPATFULL/
USPAT2
NEWS 9 JAN 13 IPC 8 searching in IFIPAT, IFIUDB, and IFICDB
NEWS 10 JAN 13 New IPC 8 SEARCH, DISPLAY, and SELECT enhancements added to
INPADOC
NEWS 11 JAN 17 Pre-1988 INPI data added to MARPAT
NEWS 12 JAN 17 IPC 8 in the WPI family of databases including WPIFV
NEWS 13 JAN 30 Saved answer limit increased
NEWS 14 JAN 31 Monthly current-awareness alert (SDI) frequency
added to TULSA

NEWS EXPRESS JANUARY 03 CURRENT VERSION FOR WINDOWS IS V8.01,
CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005.
V8.0 USERS CAN OBTAIN THE UPGRADE TO V8.01 AT
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* * * * * STN Columbus * * * * *

FILE 'HOME' ENTERED AT 20:11:36 ON 06 FEB 2006

=> file reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

10/630,697

	ENTRY	SESSION
FULL ESTIMATED COST	0.21	0.21

FILE 'REGISTRY' ENTERED AT 20:11:47 ON 06 FEB 2006
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DICTIONARY FILE UPDATES: 5 FEB 2006 HIGHEST RN 873536-40-4

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* The CA roles and document type information have been removed from *
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* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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<http://www.cas.org/ONLINE/UG/regprops.html>

=>Testing the current file.... screen

ENTER SCREEN EXPRESSION OR (END):end

=> screen 963

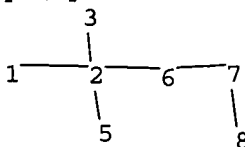
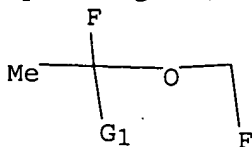
L1 SCREEN CREATED

=> screen 1992 OR 2016 OR 2021 OR 2026 OR 1938 OR 1958 OR 1985 OR 1838 OR
973 OR 1015

L2 SCREEN CREATED

=>

Uploading C:\Documents and Settings\RKeys\My Documents\10630697.str



10/630,697

chain nodes :
1 2 3 5 6 7 8
chain bonds :
1-2 2-3 2-5 2-6 6-7 7-8
exact/norm bonds :
2-5 2-6 6-7
exact bonds :
1-2 2-3 7-8

G1:F,CF3

Match level :
1:CLASS 2:CLASS 3:CLASS 5:CLASS 6:CLASS 7:CLASS 8:CLASS

L3 STRUCTURE UPLOADED

=> que L3 AND L1 NOT L2

L4 QUE L3 AND L1 NOT L2

=> s
ENTER LOGIC EXPRESSION, QUERY NAME, OR (END):end
SEARCH ENDED BY USER

=> s 14
SAMPLE SEARCH INITIATED 20:12:18 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 69 TO ITERATE

100.0% PROCESSED 69 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 882 TO 1878
PROJECTED ANSWERS: 0 TO 0

L5 0 SEA SSS SAM L3 AND L1 NOT L2

=> s 14 ful
FULL SEARCH INITIATED 20:12:25 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 1330 TO ITERATE

100.0% PROCESSED 1330 ITERATIONS 6 ANSWERS
SEARCH TIME: 00.00.01

L6 6 SEA SSS FUL L3 AND L1 NOT L2

=> d scan

L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Ethane, 1-(1,1-difluoroethoxy)-1,1,2,2-tetrafluoro- (9CI)
MF C4 H4 F6 O

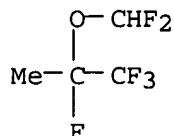
F₂CH—CF₂—O—CF₂—Me

10/630,697

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

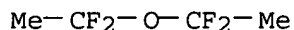
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):5

L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propane, 2-(difluoromethoxy)-1,1,1,2-tetrafluoro- (9CI)
MF C4 H4 F6 O



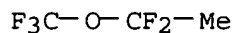
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Ethane, 1,1'-oxybis[1,1-difluoro- (9CI)
MF C4 H6 F4 O



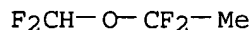
PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI)
MF C3 H3 F5 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

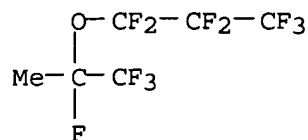
L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Ethane, 1-(difluoromethoxy)-1,1-difluoro- (9CI)
MF C3 H4 F4 O



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

L6 6 ANSWERS REGISTRY COPYRIGHT 2006 ACS on STN
IN Propane, 1,1,1,2,2,3,3-heptafluoro-3-(1,2,2,2-tetrafluoro-1-methylethoxy)- (9CI)
MF C6 H3 F11 O

10/630,697



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

ALL ANSWERS HAVE BEEN SCANNED

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

168.70

168.91

FILE 'CAPLUS' ENTERED AT 20:14:29 ON 06 FEB 2006

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=> s 16

L7 17 L6

=> dup rem 17

PROCESSING COMPLETED FOR L7

L8 17 DUP REM L7 (0 DUPLICATES REMOVED)

=> d scan

L8 17 ANSWERS CAPLUS COPYRIGHT 2006 ACS on STN

CC 22-13 (Physical Organic Chemistry)

Section cross-reference(s): 59

TI Investigation of the correlation between the energy of the highest occupied molecular orbital (HOMO) and the logarithm of the OH rate constant of hydrofluorocarbons and hydrofluoro ethers

ST HOMO hydrofluorocarbon hydrofluoro ether reaction hydroxyl

IT Density-functional theory

Kinetics, reaction
 (correlation of HOMO energies and the logarithm of the OH rate constant with hydrofluorocarbons or hydrofluoro ethers)

IT Molecular orbital
 (HOMO, correlation of HOMO energies and the logarithm of the OH rate constant with hydrofluorocarbons or hydrofluoro ethers)

IT Hydrocarbons, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (fluoro, correlation of HOMO energies and the logarithm of the OH rate constant with hydrofluorocarbons or hydrofluoro ethers)

IT Ethers, reactions
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (fluoroalkyl, correlation of HOMO energies and the logarithm of the OH rate constant with hydrofluorocarbons or hydrofluoro ethers)

IT 75-10-5, Difluoromethane 75-37-6 75-46-7, Trifluoromethane 75-90-1, Trifluoroacetaldehyde 353-36-6 354-33-6, Pentafluoroethane 359-15-9 359-35-3, 1,1,2,2-Tetrafluoroethane 377-36-6, 1,1,2,2,3,3,4,4-Octafluorobutane 420-46-2, 1,1,1-Trifluoroethane 421-07-8 421-14-7 425-88-7 430-66-0 431-63-0, 1,1,1,2,3,3-Hexafluoropropane 431-89-0, 1,1,1,2,3,3,3-Heptafluoropropane 460-22-0, Fluoromethyl methyl ether 460-36-6 460-43-5 460-73-1 461-63-2, Difluoromethyl fluoromethyl ether 462-51-1, Bis(Fluoromethyl) ether 593-53-3, Fluoromethane 624-72-6, 1,2-Difluoroethane 677-56-5 679-86-7 680-00-2 690-22-2 690-39-1, 1,1,1,3,3,3-Hexafluoropropane 811-97-2, 1,1,1,2-Tetrafluoroethane 819-49-8 1691-17-4, Bis(difluoromethyl) ether 1737-75-3 1814-88-6 2252-84-8, 1,1,1,2,2,3,3-Heptafluoropropane 2261-01-0, Fluoromethyl trifluoromethyl ether 2356-61-8 2356-62-9 3352-57-6, Hydroxyl, reactions 3822-68-2 20193-67-3 22410-44-2 28523-86-6 32778-11-3 32778-16-8 37031-31-5 40723-63-5 53997-64-1 57041-67-5 66794-30-7, Propane, 1,1,3,3-tetrafluoro 69948-24-9 **69948-27-2** **69948-29-4** 84011-00-7 84011-06-3 84011-15-4 134561-94-7 138495-42-8, 1,1,1,2,2,3,4,5,5,5-Decafluoropentane 144109-03-5

RL: RCT (Reactant); RACT (Reactant or reagent)
 (correlation of HOMO energies and the logarithm of the OH rate constant with hydrofluorocarbons or hydrofluoro ethers)

IT 75-89-8P, Trifluoroethanol 76-05-1P, Trifluoroacetic acid, reactions 359-48-8P, Trifluoroperacetic acid 1493-02-3P, Fluoroformaldehyde 16156-36-8P, Trifluoromethyl hydroperoxide

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (predicted atmospheric lifetime of)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):0

=> d 1-17 bib fhitstr

L8 ANSWER 1 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
 AN 2005:979719 CAPLUS
 DN 143:288722
 TI Tracers for refrigerants
 IN Leck, Thomas J.; Bricker, Stuart C.; Sievert, Allen C.
 PA E. I. Dupont de Nemours and Company, USA
 SO PCT Int. Appl., 22 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005083027	A1	20050909	WO 2005-US5595	20050223
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,			

10/630,697

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM,
SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
MR, NE, SN, TD, TG

US 2005230657 A1 20051020 US 2005-62044 20050218
PRAI US 2004-548085P P 20040226
US 2005-62044 A 20050218

IT 69948-27-2

RL: ANT (Analyte); MOA (Modifier or additive use); ANST (Analytical
study); USES (Uses)

(tracer; tracers for refrigerants)

RN 69948-27-2 CAPLUS

CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C—O—CF₂—Me

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 2 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2005:76446 CAPLUS

DN 142:138411

TI Evaporative coolants having low dielectric constant for use in fuel cells
and other electrochemical reactor stacks

IN Fagan, Neil; Flaherty, K. Michael; Kratschmar, Kenneth W.; Peters, Eddy
J.; Corless, Adrian; Leboe, David; Mihai, Rasvan; Andrin, Peter J.;
Teather, Eric W.; Mah, Dennie T.; Hooper, Mike A.

PA Dupont Canada Inc., Can.; Cellex Power Products, Inc.

SO PCT Int. Appl., 51 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005008819	A2	20050127	WO 2004-CA1086	20040722
	WO 2005008819	A3	20051208		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE,
SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,
SN, TD, TG

PRAI US 2003-489595P P 20030723

IT 69948-27-2

RL: TEM (Technical or engineered material use); USES (Uses)

(evaporative coolants having low dielec. constant for use in fuel cells
and other electrochem. reactor stacks)

RN 69948-27-2 CAPLUS

10/630,697

CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C-O-CF₂-Me

L8 ANSWER 3 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:74170 CAPLUS
DN 142:158814
TI Coolant liquids having a low dielectric constant and high resistivity for use in fuel cells and other electrochemical reactor stacks
IN Fagan, Neil; Flaherty, K. Michael; Kratschmar, Kenneth W.; Peters, Eddy J.; Corless, Adrian; Leboe, David; Mihai, Rasvan; Andrin, Peter J.; Teather, Eric W.; Mah, Dennie T.; Hooper, Mike A.
PA Dupont Canada Inc., Can.; Cellex Power Products, Inc.
SO PCT Int. Appl., 50 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005007771	A1	20050127	WO 2004-CA1087	20040722
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	RW:				
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PRAI US 2003-489346P P 20030723

IT 69948-27-2

RL: TEM (Technical or engineered material use); USES (Uses)
(coolant liqs. having a low dielec. constant and high resistivity for use in fuel cells and other electrochem. reactor stacks)

RN 69948-27-2 CAPLUS

CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C-O-CF₂-Me

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 4 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 2005:611585 CAPLUS
DN 143:136022
TI Fluoroether refrigerant compositions and uses thereof
IN Minor, Barbara Haviland; Nappa, Mario J.; Sievert, Allen C.
PA USA
SO U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI	US 2005151110	A1	20050714	US 2004-14003	20041216	
	US 2005151113	A1	20050714	US 2004-14000	20041216	
	US 2005151112	A1	20050714	US 2004-14438	20041216	
	US 2005156135	A1	20050721	US 2004-13901	20041216	
	US 2005156138	A1	20050721	US 2004-14333	20041216	
	US 2005156134	A1	20050721	US 2004-14334	20041216	
	US 2005156139	A1	20050721	US 2004-14343	20041216	
	US 2005194560	A1	20050908	US 2004-14006	20041216	
	WO 2005067554	A2	20050728	WO 2005-US1504	20050112	
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	WO 2005067556	A2	20050728	WO 2005-US1506	20050112	
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	WO 2005067557	A2	20050728	WO 2005-US1507	20050112	
	WO 2005067557	A3	20051201			
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	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO 2005068579	A1	20050728	WO 2005-US1508	20050112	
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	RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	WO 2005067558	A2	20050728	WO 2005-US1509	20050112	
	WO 2005067558	A3	20051201			
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,				

GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

WO 2005068580 A1 20050728 WO 2005-US1510 20050112
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 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
 TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
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 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
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WO 2005067559 A2 20050728 WO 2005-US1512 20050112
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 GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
 LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
 NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
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WO 2005094395 A2 20051013 WO 2005-US1511 20050112
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 RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM,
 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
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 MR, NE, SN, TD, TG

US 2005263738 A1 20051201 US 2005-62975 20050222
 US 2005263735 A1 20051201 US 2005-63040 20050222
 US 2005263736 A1 20051201 US 2005-63178 20050222
 US 2005263737 A1 20051201 US 2005-63203 20050222
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 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
 NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK,
 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
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 AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK,
 EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,
 RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML,
 MR, NE, SN, TD, TG

US 2005285074	A1	20051229	US 2005-151481	20050613
US 2005285075	A1	20051229	US 2005-152731	20050614
US 2005285076	A1	20051229	US 2005-152732	20050614
US 2005285077	A1	20051229	US 2005-153168	20050615
US 2005285078	A1	20051229	US 2005-153195	20050615
US 2005285079	A1	20051229	US 2005-153804	20050615
WO 2006012095	A2	20060202	WO 2005-US21799	20050621
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2006012096	A1	20060202	WO 2005-US21800	20050621
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RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
WO 2006012097	A1	20060202	WO 2005-US21801	20050621
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WO 2006012098	A2	20060202	WO 2005-US21802	20050621
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WO 2006012099	A1	20060202	WO 2005-US21803	20050621
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,				

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 KZ, MD, RU, TJ, TM

WO 2006012100 A1 20060202 WO 2005-US21804 20050621
 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
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 GE, GH, GM, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KZ,
 LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA,
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 SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU,
 ZA, ZM, ZW
 RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
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 KZ, MD, RU, TJ, TM

PRAI US 2004-536819P P 20040114
 US 2004-537453P P 20040115
 US 2004-549978P P 20040304
 US 2004-575037P P 20040526
 US 2004-584785P P 20040629
 US 2004-13901 A 20041216
 US 2004-14000 A 20041216
 US 2004-14003 A 20041216
 US 2004-14006 A 20041216
 US 2004-14333 A 20041216
 US 2004-14334 A 20041216
 US 2004-14343 A 20041216
 US 2004-14438 A 20041216
 US 2005-62975 A 20050222
 US 2005-151481 A 20050613
 US 2005-152731 A 20050614
 US 2005-152732 A 20050614
 US 2005-153168 A 20050615
 US 2005-153195 A 20050615
 US 2005-153804 A 20050615

OS MARPAT 143:136022

IT 328393-17-5

RL: TEM (Technical or engineered material use); USES (Uses)
 (fluoroether refrigerant compns. and their use in refrigeration, air
 conditioning and centrifugal compressors)

RN 328393-17-5 CAPLUS

CN Ethane, 1-(1,1-difluoroethoxy)-1,1,2,2-tetrafluoro- (9CI) (CA INDEX NAME)

F₂CH—CF₂—O—CF₂—Me

L8 ANSWER 5 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN

AN 2000:763911 CAPLUS

DN 134:207381

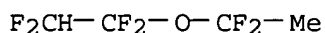
TI Fluorination of etheric substrates adsorbed on porous aluminum fluoride by
 gaseous fluorine

AU Quan, H.-D.; Tamura, M.; Murata, J.; Gao, R.; Sekiya, A.

CS Department for New Refrigerants Research, Research Institute of Innovative

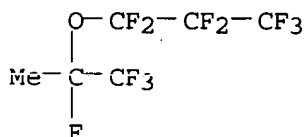
10/630,697

Technology for the Earth (RITE), c/o NIMC, Tsukuba, Ibaraki, 305-8565,
Japan
SO Journal of Fluorine Chemistry (2000), 106(2), 121-125
CODEN: JFLCAR; ISSN: 0022-1139
PB Elsevier Science S.A.
DT Journal
LA English
OS CASREACT 134:207381
IT **328393-17-5P**
RL: BYP (Byproduct); PREP (Preparation)
(preparation of fluoroalkyl ethers by fluorination of ethers adsorbed on
porous aluminum fluoride by gaseous fluorine)
RN 328393-17-5 CAPLUS
CN Ethane, 1-(1,1-difluoroethoxy)-1,1,2,2-tetrafluoro- (9CI) (CA INDEX NAME)



RE.CNT 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 6 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1999:418055 CAPLUS
DN 131:170071
TI Polyfluorinated ethers. IV. By-products in the synthesis of
polyfluorinated alkyl vinyl ethers in a solvating solvent
AU Yuminov, V. S.
CS Russia
SO Russian Journal of Organic Chemistry (Translation of Zhurnal Organicheskoi
Khimii) (1998), 34(12), 1715-1720
CODEN: RJOCEQ; ISSN: 1070-4280
PB MAIK Nauka/Interperiodica Publishing
DT Journal
LA English
IT **238077-63-9P**
RL: BYP (Byproduct); PRP (Properties); PREP (Preparation)
(mass spectral study of byproducts in preparation of polyfluorinated alkyl
vinyl ethers in solvating solvent)
RN 238077-63-9 CAPLUS
CN Propane, 1,1,1,2,2,3,3-heptafluoro-3-(1,2,2,2-tetrafluoro-1-methylethoxy)-
(9CI) (CA INDEX NAME)



RE.CNT 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 7 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1997:687030 CAPLUS
DN 128:3444
TI Monofluorination of fluorinated ethers with high-valency metal fluorides
AU Kurosawa, Shigeru; Arimura, Takashi; Sekiya, Akira
CS National Institute of Materials and Chemical Research, 1-1 Higashi,
Tsukuba, Ibaraki, 305, Japan
SO Journal of Fluorine Chemistry (1997), 85(2), 111-114

10/630,697

CODEN: JFLCAR; ISSN: 0022-1139
PB Elsevier
DT Journal
LA English
OS CASREACT 128:3444
IT **69948-27-2P**
RL: BYP (Byproduct); PREP (Preparation)
(monofluorination of fluorinated ethers with high-valency metal
fluorides)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C—O—CF₂—Me

RE.CNT 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L8 ANSWER 8 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:630270 CAPLUS
DN 121:230270
TI Investigation of the correlation between the energy of the highest
occupied molecular orbital (HOMO) and the logarithm of the OH rate
constant of hydrofluorocarbons and hydrofluoro ethers
AU Bartolotti, L. J.; Edney, E. O.
CS North Carolina Supercomputing Center, Research Triangle Park, NC, 27711,
USA
SO International Journal of Chemical Kinetics (1994), 26(9), 913-20
CODEN: IJCKBO; ISSN: 0538-8066
DT Journal
LA English
IT **69948-27-2**
RL: RCT (Reactant); RACT (Reactant or reagent)
(correlation of HOMO energies and the logarithm of the OH rate constant
with hydrofluorocarbons or hydrofluoro ethers)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C—O—CF₂—Me

L8 ANSWER 9 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:273889 CAPLUS
DN 120:273889
TI Modeled performance of non-chlorinated substitutes for CFC11 and CFC12 in
centrifugal chillers
AU Sand, James R.; Fischer, Steven K.
CS Oak Ridge Natl. Lab., Oak Ridge, TN, 37831-6070, USA
SO International Journal of Refrigeration (1994), 17(1), 40-8
CODEN: IJRFDI; ISSN: 0140-7007
DT Journal
LA English
IT **69948-27-2**
RL: USES (Uses)
(as nonchlorinated refrigerant substitutes for CFC 11 and CFC 12, in
centrifugal chillers)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

10/630,697

F₃C—O—CF₂—Me

L8 ANSWER 10 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1994:273888 CAPLUS
DN 120:273888
TI Comparative assessment of some HCFCs, HFCs and HFEs as alternatives to CFC
11
AU Devotta, S.; Gopichand, S.; Pendyala, V. Rao
CS Chem. Eng. Div., Natl. Chem. Lab., Pune, 411 008, India
SO International Journal of Refrigeration (1994), 17(1), 32-9
CODEN: IJRFDI; ISSN: 0140-7007
DT Journal
LA English
IT **69948-27-2**
RL: USES (Uses)
(refrigerants, alternative, comparative assessment of)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C—O—CF₂—Me

L8 ANSWER 11 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:433369 CAPLUS
DN 119:33369
TI Estimated lifetimes of fluorinated ethyl methyl ethers in atmosphere
AU Suga, Atsuo; Mochizuki, Yuji; Gotoh, Yoshihiko; Ito, Haruaki; Takahashi,
Mitsuru; Yamashita, Shiro; Aoyagi, Mutsumi; Sekiya, Akira; Kondo, Shigeo;
Hakuta, Toshikatsu
CS Res. Inst. Innovative Technol. Earth, Natl. Inst. Mater. Chem. Res.,
Tsukuba, 305, Japan
SO Chemistry Express (1993), 8(4), 205-8
CODEN: CHEXEU; ISSN: 0911-9566
DT Journal
LA English
IT **69948-27-2**
RL: POL (Pollutant); OCCU (Occurrence)
(air pollution by, persistence of, calcn. of, from energy of
highest-occupied MO)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

F₃C—O—CF₂—Me

L8 ANSWER 12 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1993:153319 CAPLUS
DN 118:153319
TI Potential CFC replacements: tropospheric lifetimes of C3 hydrofluorocarbons
and hydrofluoroethers
AU Cooper, David L.; Cunningham, Terry P.; McCulloch, Archie
CS Dep. Chem., Univ. Liverpool, Liverpool, L69 3BX, UK
SO Atmospheric Environment, Part A: General Topics (1993), 27A(1), 117-19
CODEN: AEATEN; ISSN: 0960-1686
DT Journal

10/630,697

LA English
IT **69948-27-2**
RL: POL (Pollutant); OCCU (Occurrence)
(air pollution by, tropospheric lifetime in relation to)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

$\text{F}_3\text{C}-\text{O}-\text{CF}_2-\text{Me}$

L8 ANSWER 13 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1979:186295 CAPLUS
DN 90:186295
TI New inhalation anesthetics. III. Fluorinated aliphatic ethers
AU Bagnall, R. D.; Bell, W.; Pearson, K.; Jeater, A.
CS Pharm. Div., Imperial Chem. Ind. Ltd., Cheshire, UK
SO Journal of Fluorine Chemistry (1979), 13(2), 123-40
CODEN: JFLCAR; ISSN: 0022-1139
DT Journal
LA English
IT **69948-27-2P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 69948-27-2 CAPLUS
CN Ethane, 1,1-difluoro-1-(trifluoromethoxy)- (9CI) (CA INDEX NAME)

$\text{F}_3\text{C}-\text{O}-\text{CF}_2-\text{Me}$

L8 ANSWER 14 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1978:441906 CAPLUS
DN 89:41906
TI Reactions of sulfur tetrafluoride with carboxylic acids. Part V. The role of hydrogen fluoride and the mechanism of the reactions
AU Dmowski, Wojciech; Kolinski, Ryszard A.
CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, Pol.
SO Polish Journal of Chemistry (1978), 52(3), 547-59
CODEN: PJCHDQ; ISSN: 0137-5083
DT Journal
LA English
IT **38217-11-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38217-11-7 CAPLUS
CN Ethane, 1,1'-oxybis[1,1-difluoro- (9CI) (CA INDEX NAME)]

$\text{Me}-\text{CF}_2-\text{O}-\text{CF}_2-\text{Me}$

L8 ANSWER 15 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1974:36474 CAPLUS
DN 80:36474
TI Reactions of sulfur tetrafluoride with carboxylic acids. II. Reactions with acetic acid, propionic acid, and halo acids
AU Dmowski, Wojciech; Kolinski, Ryszard
CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, Pol.

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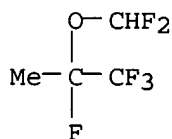
SO Roczniki Chemii (1973), 47(6), 1211-21
CODEN: ROCHAC; ISSN: 0035-7677
DT Journal
LA English
IT **38217-11-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38217-11-7 CAPLUS
CN Ethane, 1,1'-oxybis[1,1-difluoro- (9CI) (CA INDEX NAME)]

Me—CF₂—O—CF₂—Me

L8 ANSWER 16 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1972:563960 CAPLUS
DN 77:163960
TI Formation of $\alpha, \alpha, \alpha', \alpha'$ -tetrafluorodiethyl ethers
in the reaction of sulfur tetrafluoride with monocarboxylic acids
AU Dmowski, W.; Kolinski, R. A.
CS Inst. Org. Chem., Pol. Acad. Sci., Warsaw, Pol.
SO Journal of Fluorine Chemistry (1973), Volume Date 1972-1973, 2(2), 210-13
CODEN: JFLCAR; ISSN: 0022-1139
DT Journal
LA English
IT **38217-11-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 38217-11-7 CAPLUS
CN Ethane, 1,1'-oxybis[1,1-difluoro- (9CI) (CA INDEX NAME)]

Me—CF₂—O—CF₂—Me

L8 ANSWER 17 OF 17 CAPLUS COPYRIGHT 2006 ACS on STN
AN 1971:476047 CAPLUS
DN 75:76047
TI General anesthetics. 2. Halogenated methyl isopropyl ethers
AU Speers, Louise; Szur, Alex J.; Terrell, Ross C.; Treadwell, John;
Ucciardi, Thomas U.
CS Cent. Res. Lab., Air Reduct. Co, Inc., Murray Hill, NJ, USA
SO Journal of Medicinal Chemistry (1971), 14(7), 593-5
CODEN: JMCMAR; ISSN: 0022-2623
DT Journal
LA English
IT **32793-57-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation and anesthetic properties of)
RN 32793-57-0 CAPLUS
CN Propane, 2-(difluoromethoxy)-1,1,1,2-tetrafluoro- (9CI) (CA INDEX NAME)]



10/630,697

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COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

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